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| <b>Instructor:</b>    | Lin. Zhang<br><p style="text-align: right;">Email: <a href="mailto:zhanglinlin@fhda.edu">zhanglinlin@fhda.edu</a><br/> Canvas: <a href="https://deanza.instructure.com/">https://deanza.instructure.com/</a></p>   |
| <b>Class Meeting:</b> | <b>G1 MW 1:30 – 3:45PM</b>   |
| <b>Office Hours:</b>  | <b>G1 MW 12:45 – 1:30PM or email me for appointments</b>   |
| <b>Text:</b>          | <a href="#"><u>“Introductory Statistics by Barbara Illowsky”</u></a> Open Stax   |
| <b>Equipment:</b>     | <p><b>Graphing Calculator</b> like TI-83 or TI-84 is <b>required</b> (Can be borrowed from the School Library for tests)</p> <p>During lessons/quizzes, you can use apps:</p> <p><b>TI Emulator Apps</b>      For iPhone: GraphNCalc83 (free with ads)<br/> For Android: Graphing Calculator plus 84 83 (\$2.99)</p> |

**1. Course Objective:**

Descriptive statistics, including measures of central tendency; elements of probability; confidence intervals; hypothesis tests; two-population comparisons; correlation and regression; goodness of fit; analysis of variance; applications in various fields. Introduction to the use of a computer software package to complete both descriptive and inferential statistics problems.

**2. Student Learning Outcome**

- Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.
- Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.
- Collect data, interpret, compose and evaluate conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

**3. Drop Policy:**

Attendance is integral to your success in this course. I expect you to attend all class meetings. **It is always YOUR RESPONSIBILITY to drop** the class if you feel like you can't continue for any reason.

**4. Tutoring**

The Math, Science, and Technology Resource Center (**S43**) provides free on campus **Tuesday/Wednesday 9AM – 6PM** and online services **Monday – Thursday 9AM – 6PM, Friday 9Am – 12:30PM**. For more information, go to [www.deanza.edu/studentuccess/mstrc](http://www.deanza.edu/studentuccess/mstrc)

## 5. Academic Integrity:

Copying another student's solutions, or using unauthorized materials (notes or cellphones) during tests are considered cheating. Violation of this policy will result in the student receiving ZERO credit for the entire assignment or test. Further action may be taken depending on the circumstance.

## 6. Support Services

Students with disabilities needing reasonable accommodations should inform me in the beginning of the quarter. For more information, please visit the DSS office [www.deanza.edu/dsps/dss](http://www.deanza.edu/dsps/dss).

## 7. Grades

|                   |            |                   |
|-------------------|------------|-------------------|
| InClass (drop 2)  | 10%        |                   |
| Homework (drop 1) | 18%        | <b>A: 90-100%</b> |
| Quizzes (drop 1)  | 6%         | <b>B: 80-89%</b>  |
| 3 Projects        | 6%         | <b>C: 70-79%</b>  |
| 2 Exams           | 40%        | <b>D: 60-69%</b>  |
| <u>Final Exam</u> | <u>20%</u> | <b>F: 0-59%</b>   |
| Total             | 100%       |                   |

### InClass Participation:

Each lesson has in-class practice problems assigned throughout the lesson. You need to turn in completed problems at the end of class. Keep in mind that your problems are very similar to the ones I do, but adapted with different numbers. In the events of absence, you will receive zero for the in-class. **Two lowest scores will be dropped** for overall grade calculation at the end of the term.

### Quizzes

Several weekly Quizzes are given in the classroom on quiz days. Quiz problems are similar to homework problems and lecture examples. All quizzes are open notes

### Projects

Three projects will be given throughout the term. All of them can be done in pairs or individually. I will have a sign-up page during the first week. Please try to remain in the same groups for all projects.

### Homework:

Homework assignments are to be submitted in **MyOpenMath** (embedded in **Canvas**). Even I am not collecting work, you are supposed to work out the problems on your own paper.

Each student are given **6 late passes (5-day extension each)** this quarter. After a homework assignment is due, you should see a "late pass" button in the description of the assignment. If an assignment is due on 1/12, using one late pass will extend the due date to 1/17. After using all your late passes, you can complete an assignment in "**Practice**" mode, and there is a **20% penalty** when I record your grade later.

### Midterms and Final

**Two midterms** and **one final exam** will be given with opportunities of test corrections. Test correction opportunities will be available for midterms, not the final. Every test counts. You CAN'T drop any. More details of test correction will be explained after Test 1.

## 8. Calculator Requirements

- Library Reserve desk has TI-83/84 calculators for limited loans. The instructor can NOT lend her calculator.
- Cell phones can be used as a calculator during lesson or on a quiz, BUT NOT on an exam.
  - For iPhone: Graphing Calculator 84 (free with ads)
  - For Android: Graphing Calculator plus 84 83 (\$2.99 for pro features)

## 9. Class Calendar

| Week | Monday  | Wednesday   | Notes  |
|------|---|---|--|
| 1    | 1/6<br><b>Ch 1 Nature of Stat</b>                         | 1/8<br><b>Ch 2 Freq Table &amp; graphs</b>                                |  |
| 2    | 1/13 <b>Quiz 1</b><br><b>Ch 2 Freq Table &amp; graphs</b> | 1/15<br><b>Ch 3 Des Statistics</b><br><b>Project 1</b>                    | <b>Sun. Jan. 19<sup>th</sup></b> last day to add or drop with no record. |
| 3    | 1/20 <b>No Class</b><br><b>MLK Holiday</b>                | 1/22<br><b>Ch 3 Des Statistics</b>  |  |
| 4    | 1/27 <b>Quiz 2</b><br><b>Ch 4 Probability</b>             | 1/29<br><b>Ch 4 Probability</b>   |  |
| 5    | 2/3<br><b>Ch 5 Discrete Prob</b>                          | 2/5<br><b>Test 1</b> (Ch 1 to Ch 4)                                       |  |
| 6    | 2/10<br><b>Ch 5 Discrete Prob</b>                         | 2/12 <b>Quiz 3</b><br><b>Ch 6 Normal Prob</b>                             |  |
| 7    | 2/17<br><b>Ch 7 Confidence Interval</b>                   | 2/19 <b>Quiz 4</b><br><b>Ch 7 Confidence Interval</b><br><b>Project 2</b> |  |
| 8    | 2/24 <b>No Class</b><br>Veterans Day                      | 2/26<br><b>Ch 8 Hyp. Testing</b>  | <b>Friday, Feb. 28<sup>th</sup></b> : last day to drop with a "W".       |
| 9    | 3/3<br><b>Ch 8 Hyp. Testing</b>                           | 3/5 <b>Quiz 5</b><br><b>Ch 9 Hyp of 2 samples</b>                         |  |
| 10   | 3/10<br><b>Ch 11 Chi-Square</b><br><b>Project 3</b>       | 3/12<br><b>Test 2</b> (Ch 5 to Ch 8)                                      |  |
| 11   | 3/17<br><b>Ch 11 Chi-Square</b>                           | 3/19 <b>Quiz 6</b><br><b>Ch 10 Linear Reg</b>                             |  |
| 12   | 3/24<br><b>Final Exam</b> 1:45 – 3:45 PM                  | 3/26<br>No Class  |  |



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- Collect data, interpret, compose and evaluate conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

**Office Hours:**

|     |          |          |           |    |
|-----|----------|----------|-----------|----|
| M,W | 06:15 PM | 06:45 PM | In-Person | G1 |
| M,W | 12:45 PM | 01:30 PM | In-Person | G1 |